

# **Crisp Creek Watershed Plan**

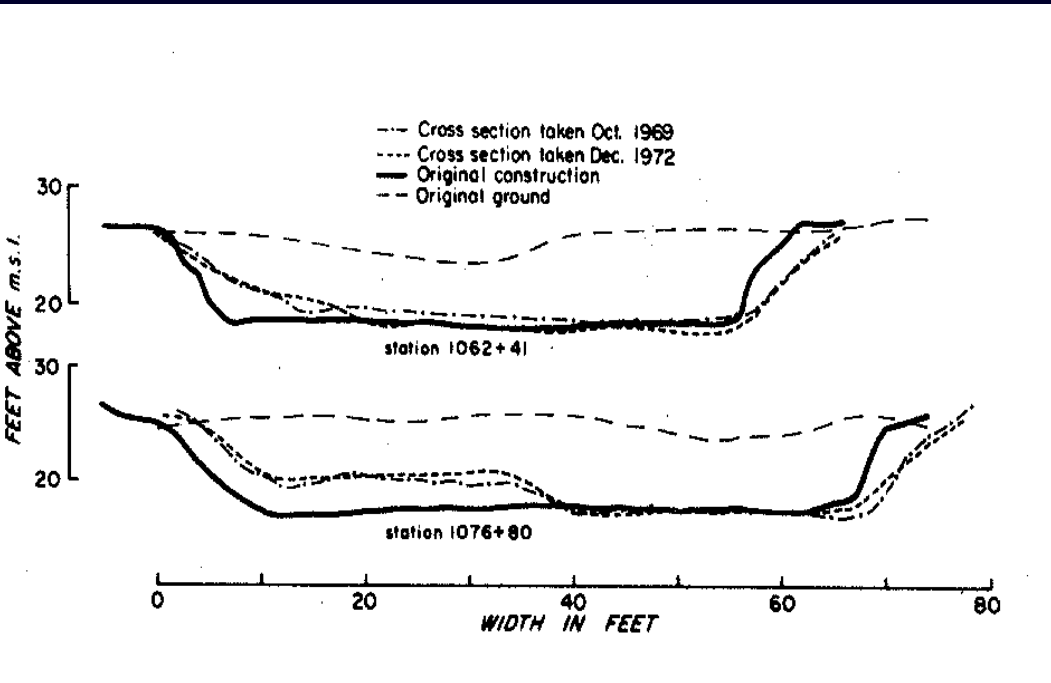
## **BMPs Proposed for Implementation**

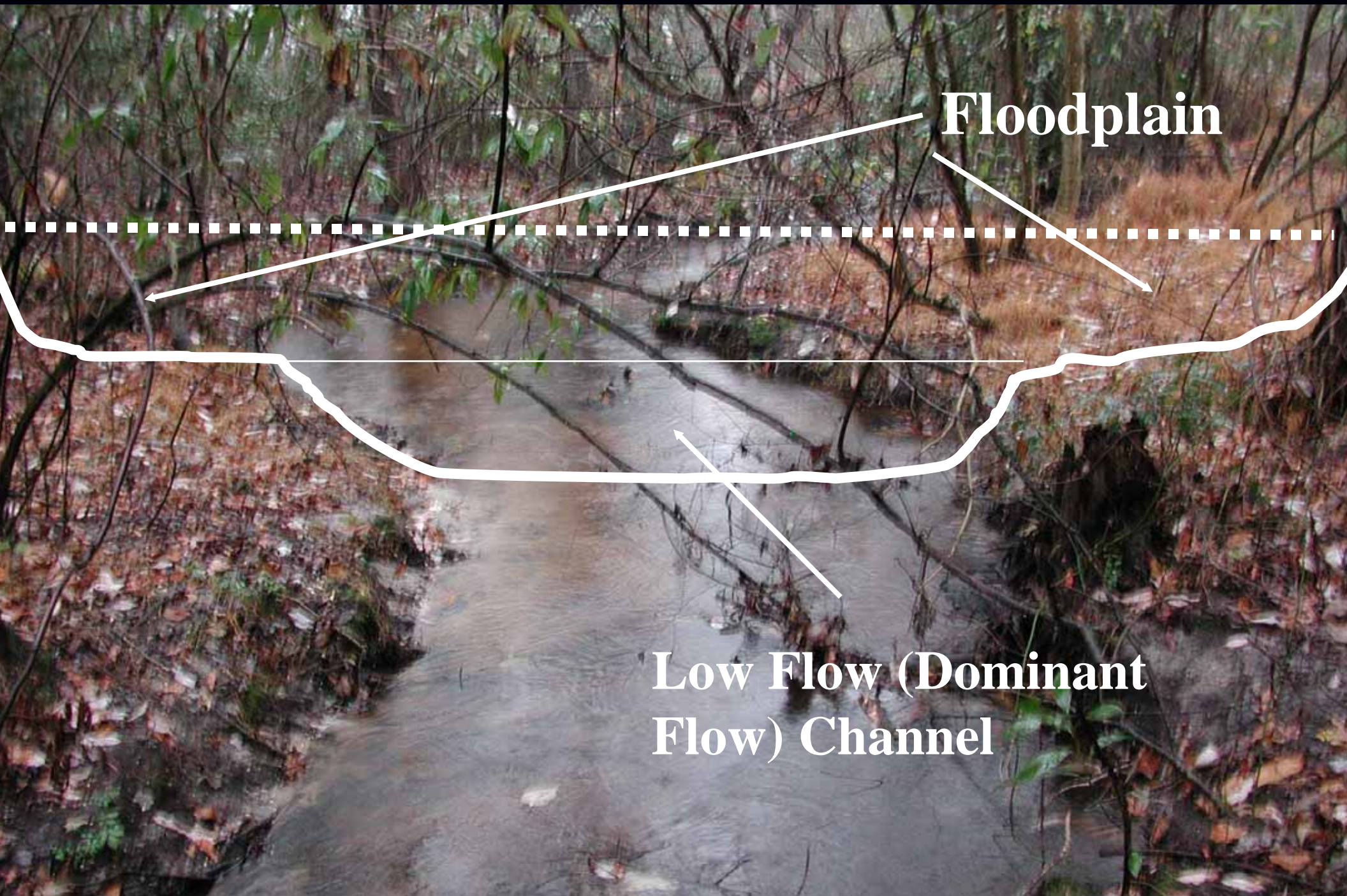
- **Riparian forest buffers**
- **Riparian grass buffers**
- **Wetland restoration**
- **Stream restoration**

# Trapezoidal Drainage Canal









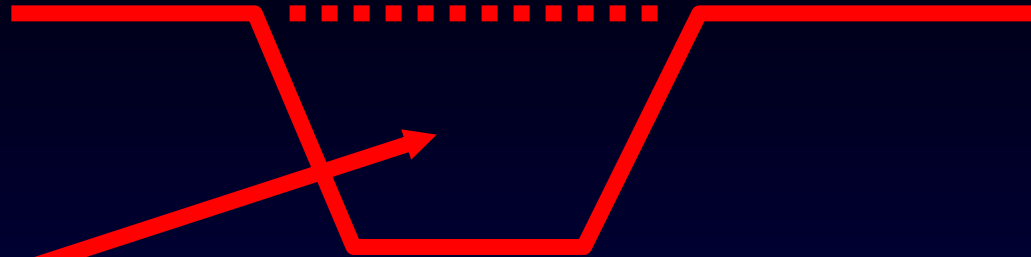
**Floodplain**

**Low Flow (Dominant Flow) Channel**

# Channel with Stable Benches



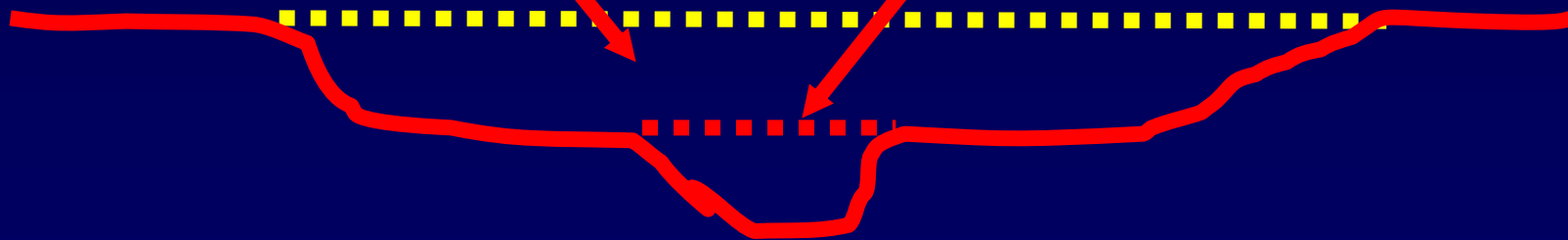
**Out of bank once every 2 to 3 years**



**Area same**

**Excavated Channel**

**Out of bank 2-3 times per year**



**Stable Natural Channel**

# **Stream Restoration Alternatives**

- **Raise bed to pre channelization elevation  
(priority I)**



Old profile



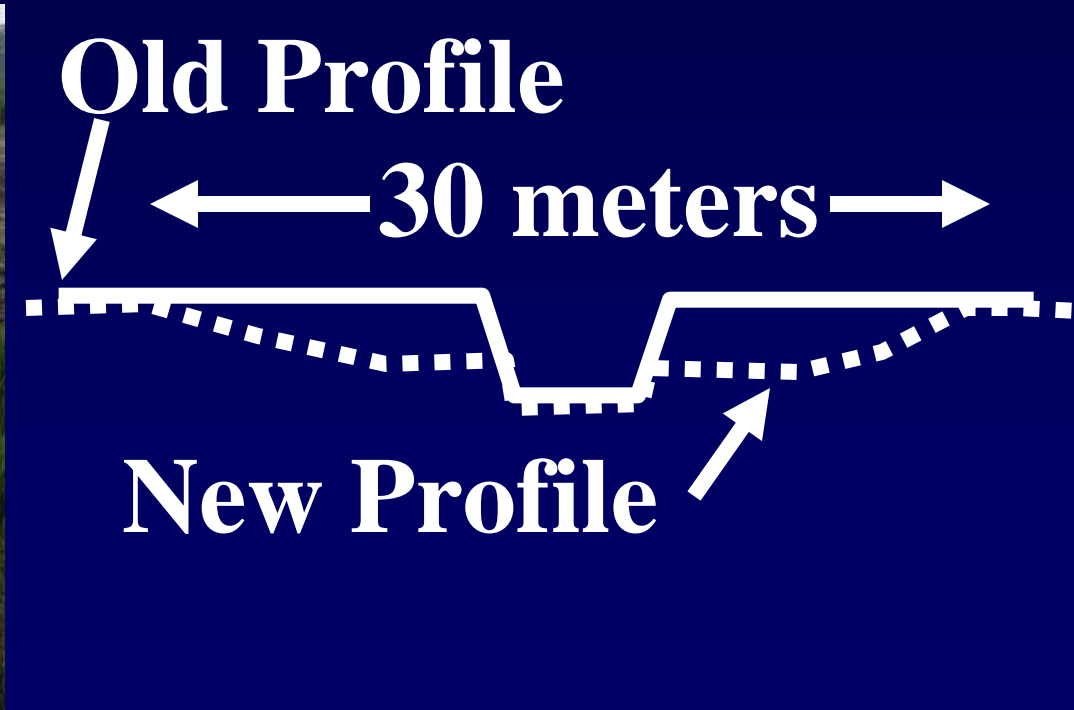
New profile





# **Stream Restoration Alternatives**

- **Raise bed to pre channelization elevation  
(priority I)**
- **Lower floodplain and reconnect to channel  
(priority II)**



# Core Creek Stream Restoration Project





# Priority II Stream and Floodplain restoration





**Core Creek 7-8 Months Post Restoration**

# **Stream Restoration Alternatives**

- Raise bed to pre channelization elevation (priority I)**
- Lower floodplain and reconnect to channel (priority II)**
- Lay back banks and create channel within a channel (priority ?)**

# Newland Watershed Project



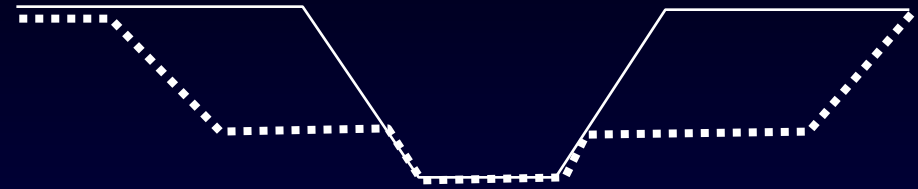
**5 miles buffer  
Wetland ledge after  
construction**



**2.6 acres in stream  
wetland after plant  
establishment**

# Construct wide benches

Old Profile

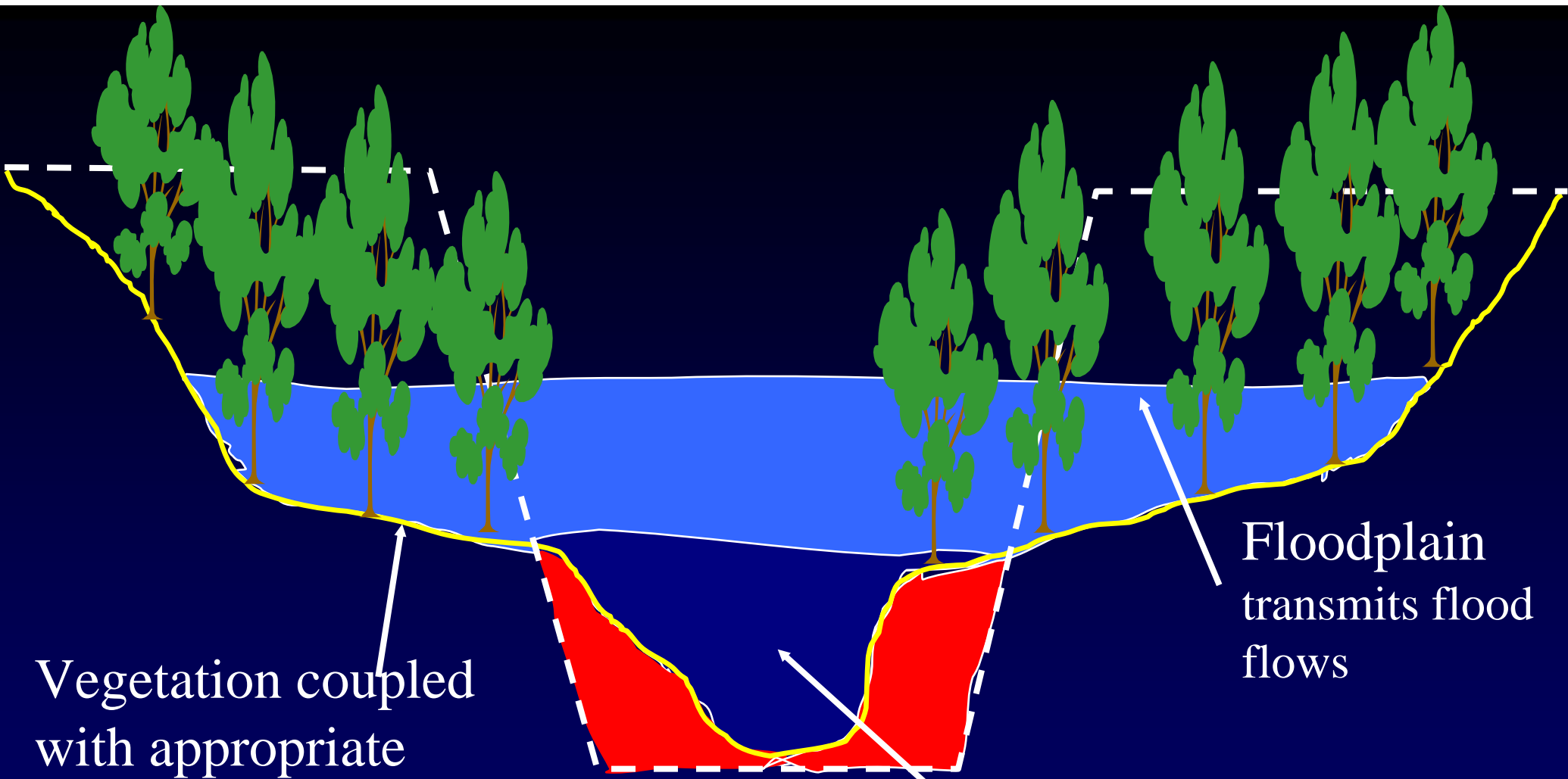


New Profile



# One Side Construction Needles Creek, Wood County





Vegetation coupled with appropriate hydrology can enhance wetland and stream functions

Floodplain transmits flood flows

Dominant flow transports sediment